



AFRL Information Directorate (Rome Research Site)

Information Directorate

AFCEA New Horizons Symposium

13-14 November 1997

Presented By:

Jim Hyde

Principal Physical Scientist

AFRL/IFP

(315) 330-3705



Outline

Information Directorate

- ◆ **Information Directorate Vision**
- ◆ **Mission**
- ◆ **Organization**
- ◆ **Overview: Existing Contracts**
- ◆ **Overview: Planned New Projects**



RECENT C2 EVOLUTION

Information Directorate

SAB Review

USAF/XO Reorganization

USAF Battle Labs Formed

DARPA Leveraged Programs



C2

QDR

**Vision
Technology
Core Competency**

A&S C2 Agency

RL C2 "Vision"

AFMC/ST Single Lab

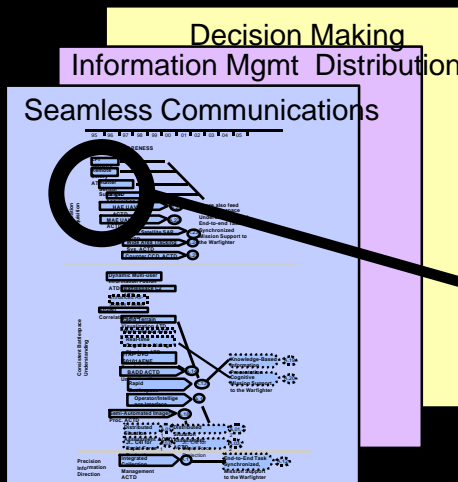
ESC Reorganization

Global Engagement



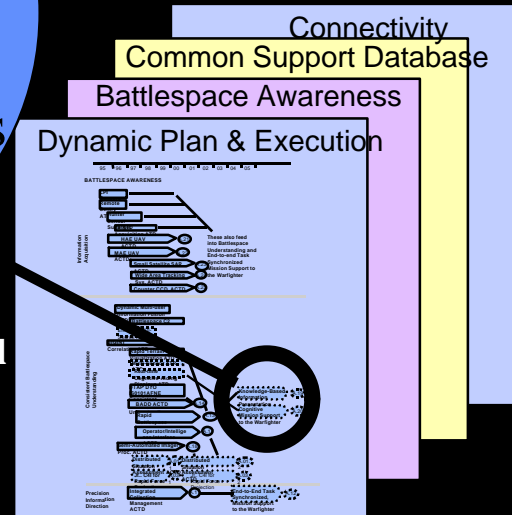
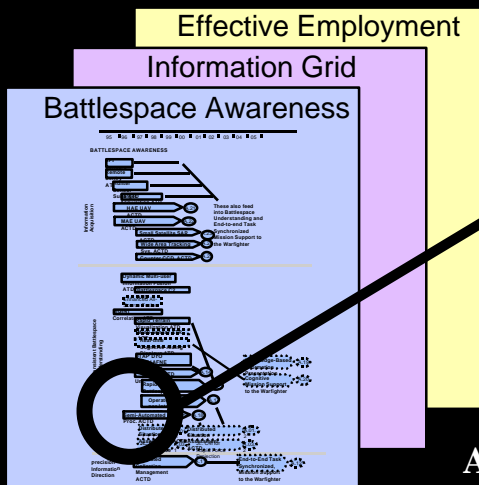
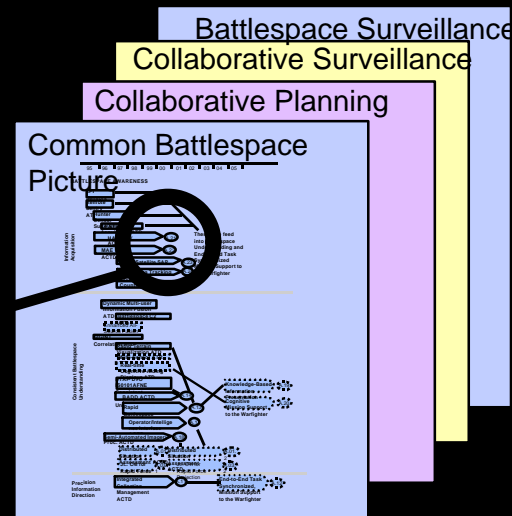
Shared C2 Attributes

Information Directorate



Defense Technology
Area Plan

ESC and
DII-AF



SAB 96 - C4ISR Panel
Vision of AF C2

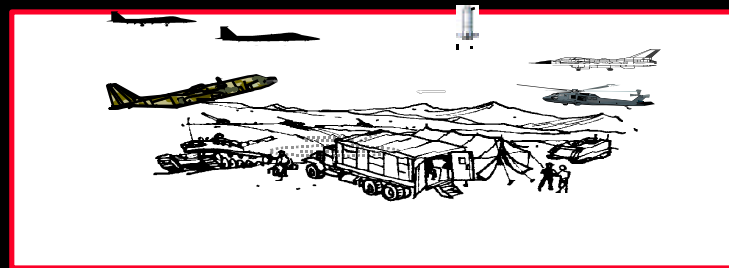
ABIS and AF/SC



C2 Vision Hierarchy

Information Directorate

Joint Vision 2010



C4I Technology Vision

Global Awareness

Global Info Exchange

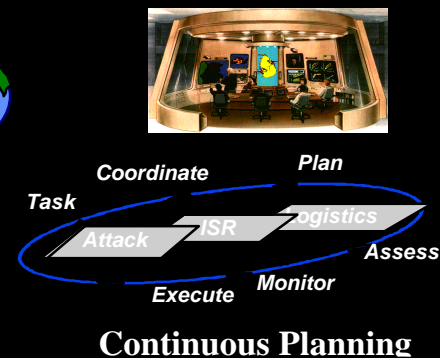
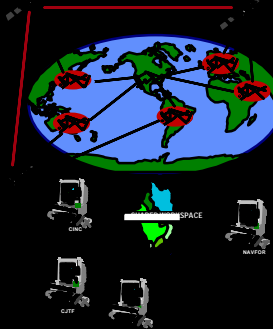
Dynamic Planning

& Exec.

INTELLIGENCE

FUSION

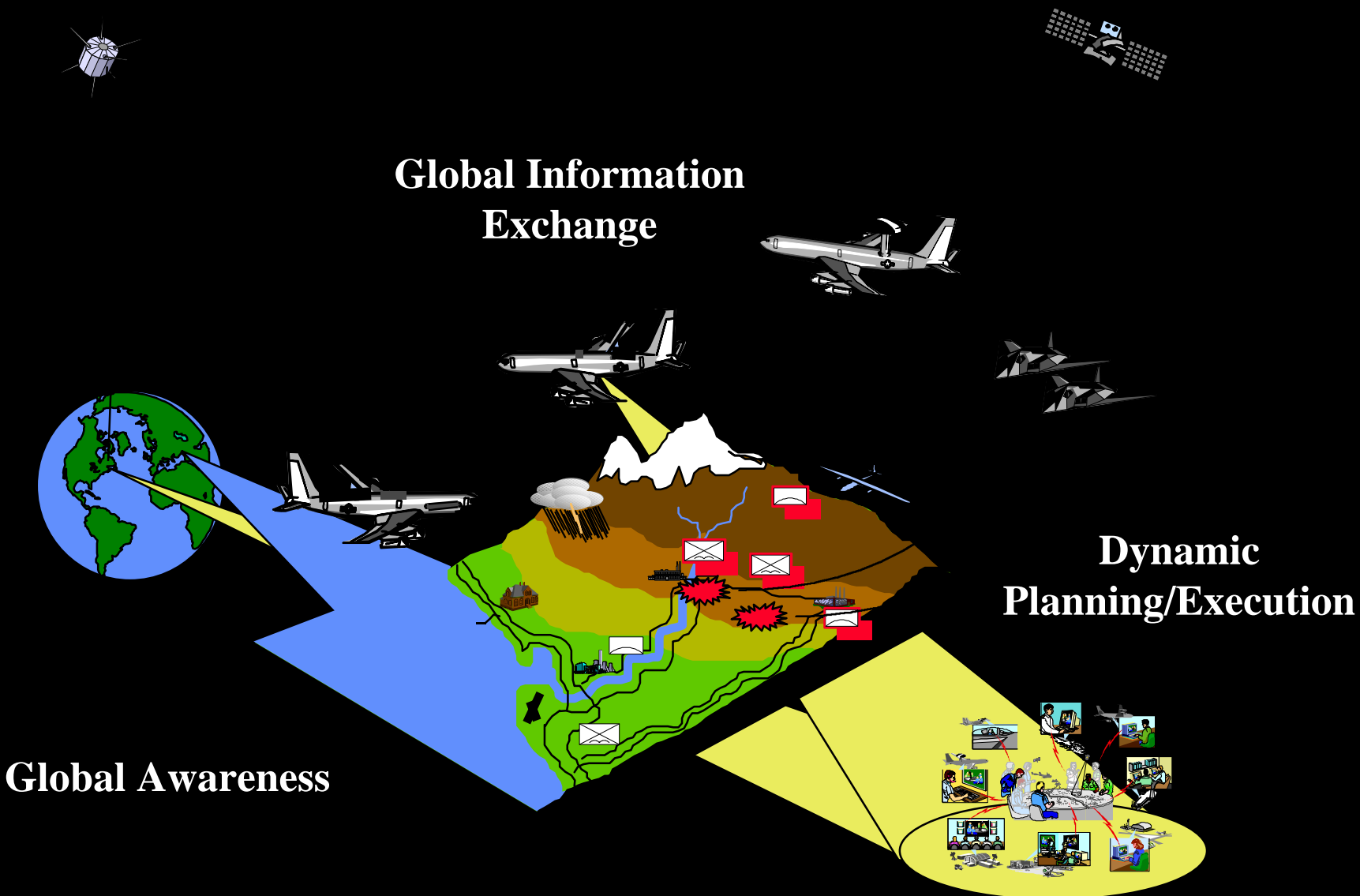
COMMUNICATIONS





Information Directorate Program Description

Information Directorate





Mission Statement

Information Directorate

**WE ADVANCE & TRANSITION THE SCIENCE & TECHNOLOGIES OF
C4I TO MEET OUR CUSTOMER'S NEEDS**

- ◆ **WE CONDUCT VIGOROUS RESEARCH, DEVELOPMENT, & TEST PROGRAMS IN ALL ENABLING TECHNOLOGIES**
- ◆ **WE TRANSITION TECHNOLOGY TO CURRENT & FUTURE SYSTEMS TO IMPROVE OPERATIONAL CAPABILITY, READINESS, & SUPPORTABILITY**
- ◆ **WE PROVIDE A FULL RANGE OF TECHNICAL SUPPORT TO AFMC SYSTEM CENTERS & OTHER AF & DoD ORGANIZATIONS**
- ◆ **WE CONDUCT SELECTED ACQUISITION PROGRAMS FOR LOW-VOLUME, LIMITED-QUANTITY INTELLIGENCE & SOFTWARE SYSTEMS**
- ◆ **WE PROMOTE THE TRANSFER OF TECHNOLOGY TO THE PRIVATE SECTOR**



Information Directorate Organization

Information Directorate

DIRECTOR
DEPUTY DIRECTOR

CHIEF SCIENTIST

PLANS &
MGMT
IFP

PK
IFK

FM
IFF

CIO
IFI

CDO
IFN

INFORMATION
TECHNOLOGY DIVISION
(IFT)

INFORMATION
GRID DIVISION
(IFG)

INFORMATION & INTELLIGENCE
EXPLOITATION DIVISION
(IFE)

INFORMATION SYSTEMS
DIVISION
(IFS)

SITE
OPERATIONS
(IFO)

EMBEDDED INFORMATION
SYSTEMS
ENGINEERING
(IFTA)
W

DISTRIBUTED
INFORMATION
SYSTEMS
(IFGA)
R

FUSION
TECHNOLOGY
(IFEA)
R

SYSTEM
CONCEPTS AND
APPLICATIONS
(IFSA)
R

CIVIL ENGINEERING

INTELLIGENT
INFORMATION
SYSTEMS
(IFTB)
R

DEFENSIVE
INFORMATION
WARFARE
(IFGB)
R

INFORMATION
HANDLING
(IFEB)
R

C4ISR MODELING
AND SIMULATION
(IFSB)
R

LOGISTICS

ADVANCED
COMPUTING
ARCHITECTURE
(IFTC)
R

INFORMATION
CONNECTIVITY
(IFGC)
R

MULTI-SENSOR
EXPLOITATION
(IFEC)
R

ADVANCED
ARCHITECTURE
AND INTEGRATION
(IFSC)
W

COMPUTERS & COMM

DYNAMIC
SYSTEMS DESIGN
CONCEPTS
(IFTD)
R

PLATFORM
CONNECTIVITY
(IFGD)
W

GLOBAL
INFORMATION
BASE
(IFED)
R

COLLABORATIVE
SIMULATION
TECHNOLOGY AND
APPLICATIONS (IFSD)
W

WORKFORCE
RELATIONS

MULTI-
TECHNOLOGY
INTEGRATION
(IFTE)
R

SYSTEM
DEMONSTRATION
AND INTEGRATION
(IFSE)
R

JUDGE ADVOCATE

SECURITY FORCES

STAFF
METEOROLOGIST



Information Directora

Knowledge Bases

Planning

Database Management

Adaptive Computing Systems

High Performance Computing

Architecture (Embedded & Dependable)

Emerging HW/SW (MEMS)

Tools for Re-engineering

HW/SW Co-design

Diagnostics and Prognostics



Information Grid Division

Information Directorate



Core Technologies

Network Protocol

Network Management & Control

Distributed Information Infrastructure

Distributed Environments

Multilevel Security

Intrusion/Malicious Code Detection

Information Attack Mitigation

COMSEC

Multi-band/Multi-mode Radios

LPI/AJ Waveforms

Unmanned Air Vehicles

Satellite Communications

Airborne Communications

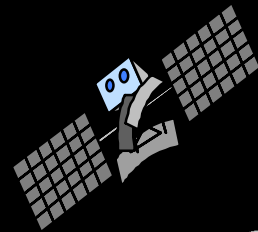


Information & Intelligence Exploitation Division

Information Directorate

Core Technologies

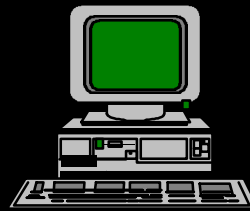
Collection



Exploitation



All-Source Intel



IDHS
Data Base

Information Fusion

Cueing and Correlation

Special Projects

Signal Exploitation

Exploitation Technology

Information Data Handling

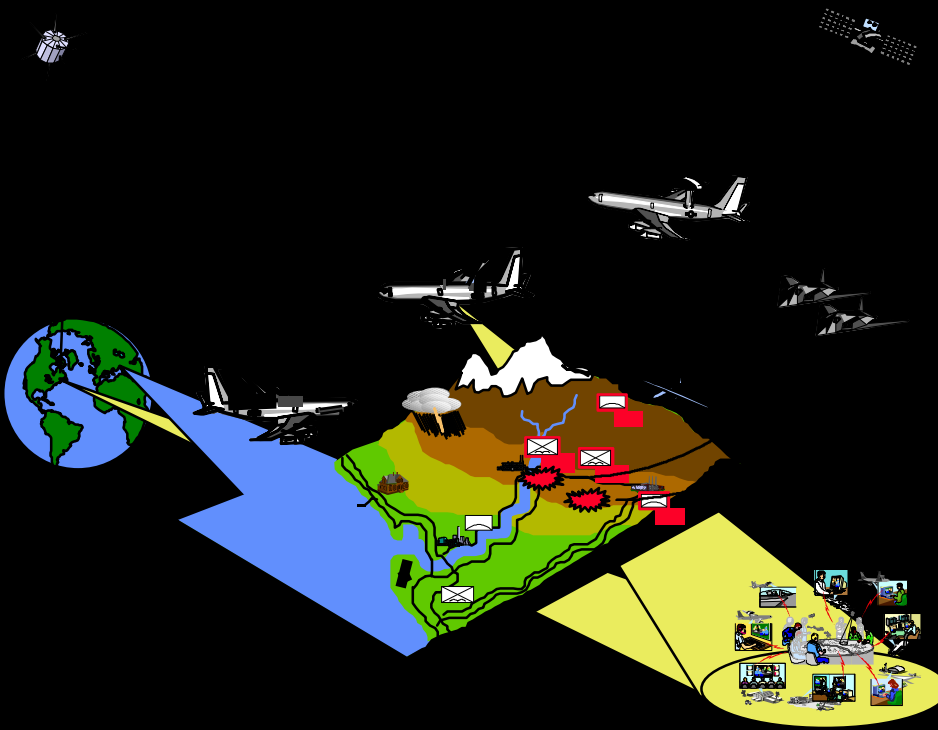


Information Systems Division

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Core Technologies

Distributed Information Systems
System Concepts Analysis
Modeling Methodology
Virtual Prototyping
High Level Architecture (Modeling & Simulation)
Real-Time People/Equipment “in the loop” Demonstrations
Sensor to Shooter Experiments
Full Spectrum Demonstrations
Electromagnetic Testing
Computer Aided Engineering Demonstrations
Distributed Testbeds



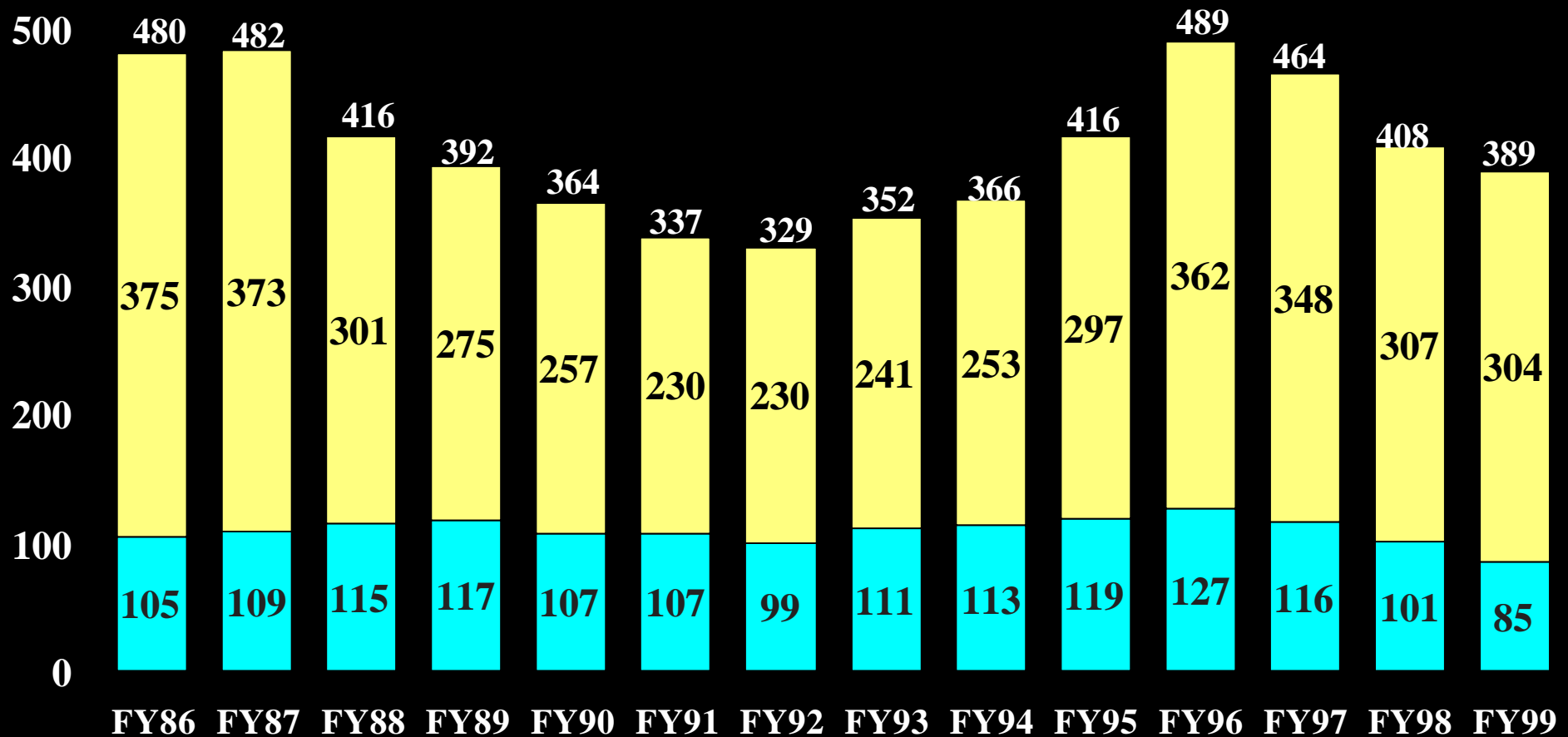


Funding Trend

All Sources - Then-Year Dollars (\$M)

Information Directorate

AFMC S&T LINE FUNDING OTHER



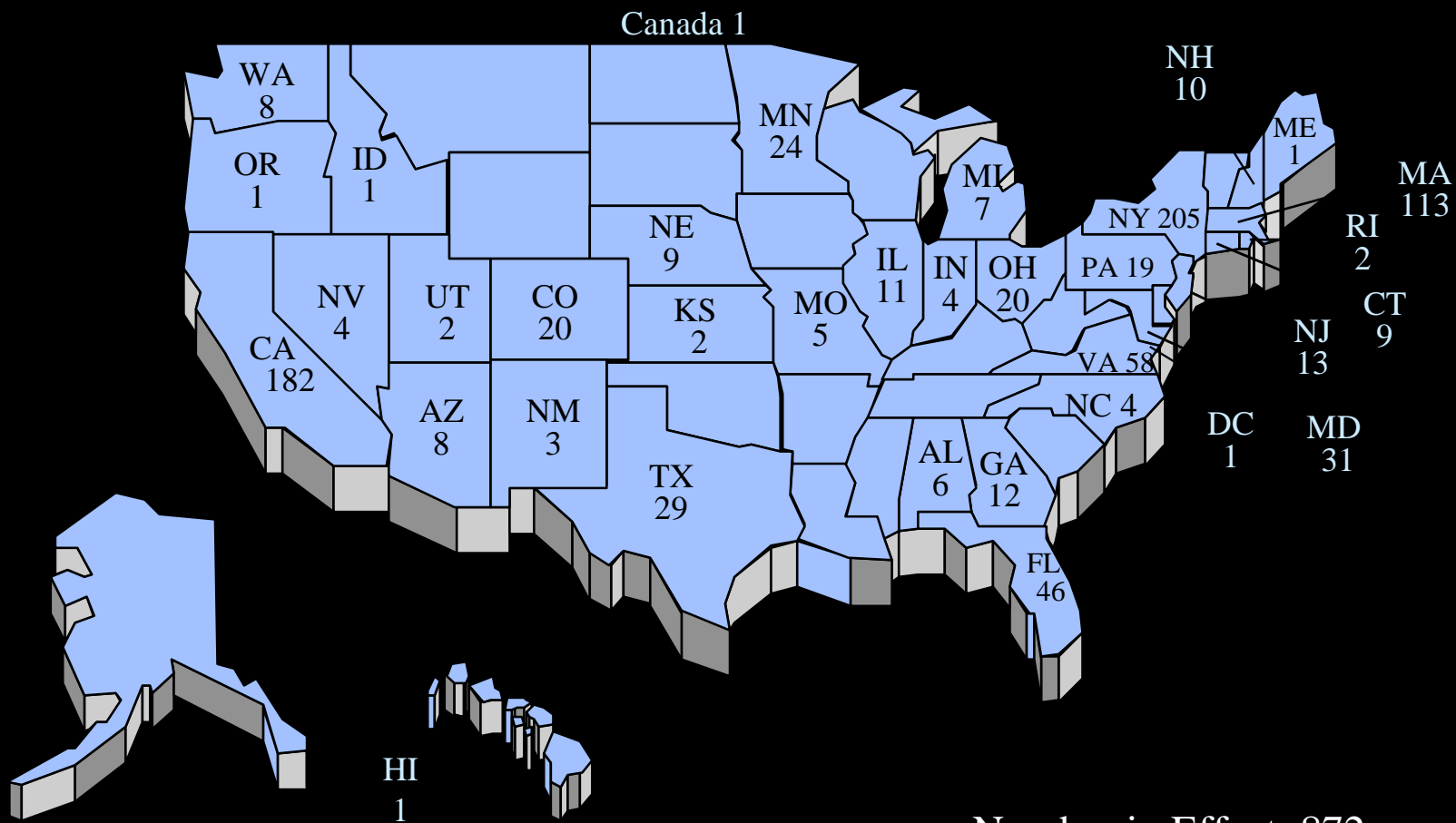
FY86-97 Rome Laboratory

FY98-99 Information Directorate



Existing Contracts

Information Directorate



Number in Effect: 872
Value: \$1,408,403,230
as of July 97



Task Ordering Contracts (TOCs)

Information Directorate

Contract: F30602-94-D-0007
Sterling Software, Inc.
1404 Fort Crook Road, South
Bellevue, NE 68005-2969
Contractor POC:
James Trent 703-356-3551
Government POC:
Rick Loreto/IRDD/315-330-3793

Contract: F30602-94-D-0055
Harris Corporation
PO Box 98000
Melbourne, FL 32902-9800
Contractor POC:
John MacMillan - 407-984-6398
Government POC:
Tandy Paugh/IRAE/315-330-2910

Contract: F30602-95-D-0028
Synectics Corporation
10400 Eaton Place
Fairfax, VA 22030
Contractor POC: Kathy White 703-293-3949 or
James Muller 315-337-3510 (Rome)
Government POC: Bill Horth/ERDD/315-330-2241

Contract: F30602-96-D-0058
BBN Systems and Technologies
10 Moulton Street
Cambridge, MA 02138
Contractor POC:
Jefferey Tillie
Government POC:
Paul Sierak/C3CB/315-330-3041

Contract: F30602-95-D-0059
Decision-Science Applications, Inc
1110 N. Glebe Road, Suite 400
Arlington, VA 22201
Contractor POC:
Kathleen Ackerson 703-243-2500
Government POC:
Virginia Ross/OCTP/315-330-4381



BAAs and PRDAs

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Broad Agency Announcements (BAAs)

- <http://www.rl.af.mil>
 - Information on 30 BAAs
 - Listing and Searchable Database

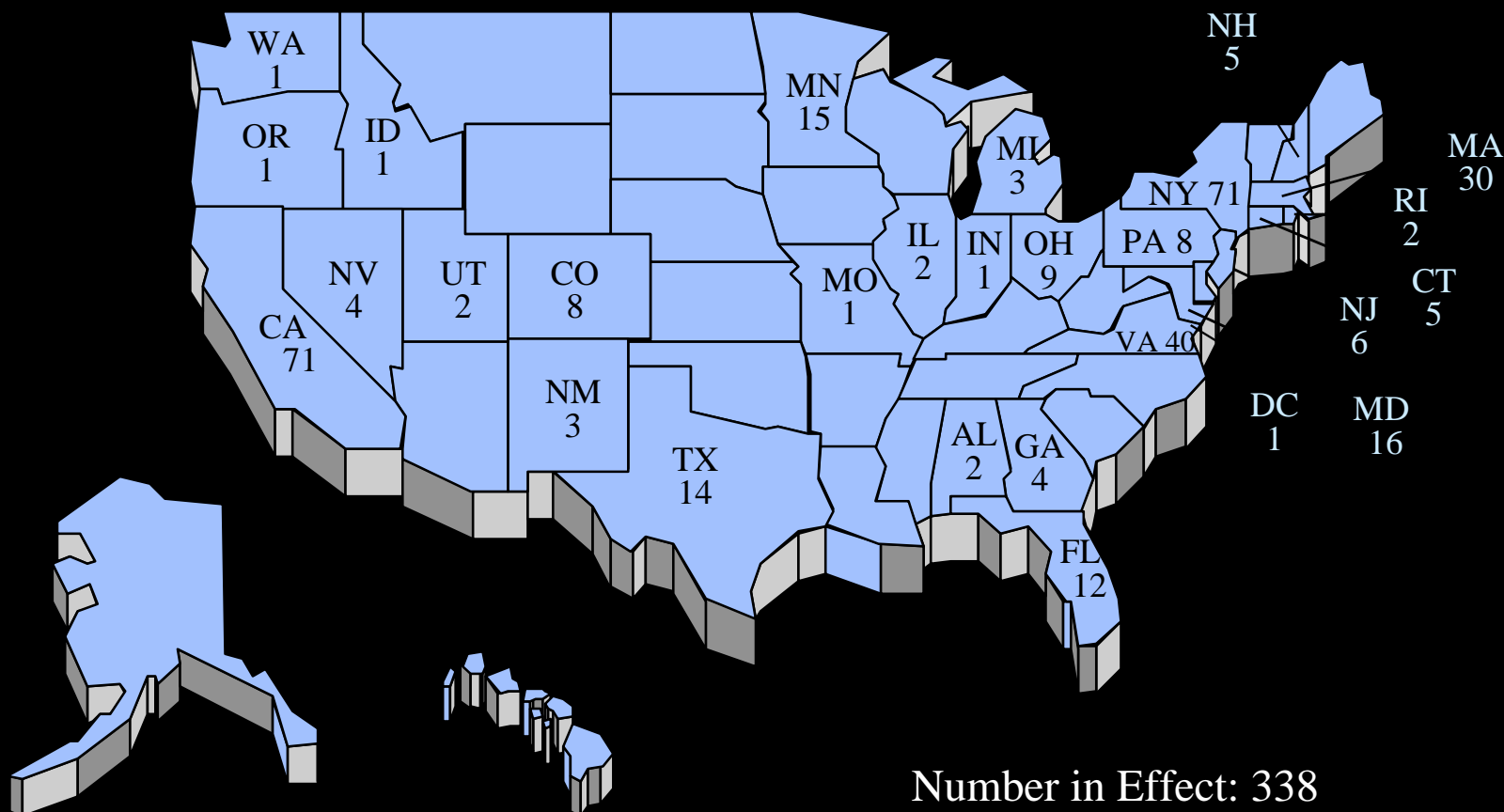
Program Research & Development Announcements (PRDAs)

- <http://www.rl.af.mil>
 - Information on 8 PRDAs
 - Listing and Searchable Database



Small Business Contracts

Information Directorate



Number in Effect: 338
Value: \$315,841,889
as of July 97



Small Business Innovation Research (SBIR) Program

Information Directorate

◆ Objectives

- To Stimulate Technological Innovation
- To promote Commercial Innovations Derived from Federal R&D
- To encourage participation by Minority Owned/Disadvantaged Small Business

- ◆ RL SBIR Funding has increased from \$13.1M FY94
- ◆ to \$20M FY97

◆ RL SBIR Performance

- Standardized formats and model contracts used for SBIR
- Beat DoD Mandated Deadlines for Procurement by 4-6 months
- Produced SBIR Commercial Successes Available for sale to military and commercial entities



Planned New Projects

Information Directorate

79 New Projects/Contracts Planned for FY98

- Values Range from \$100K to \$25M
- <http://www.rl.af.mil>
 - Descriptions
 - RFP and Award Dates
 - Estimated Value Range
 - Points of Contact
 - Contract Type
 - Etc.



http://www.rl.af.mil

Information Directorate

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Netscape: Rome Laboratory Home Page

Back Forward Home Reload Images Open Print Find Stop

Location: http://www.rl.af.mil/

What's New? What's Cool? Destinations Net Search People Software



Welcome to Rome Laboratory (RL), the U.S. Air Force's Super Lab for C4I Technology.

Our C4I Vision

Inside Rome Laboratory

Current News & Events

Technology Transfer

Business Opportunities

Outside Rome Laboratory

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[C4I Brief | Inside RL | Current News & Events | Technology Transfer | Business Opportunities | Outside RL]

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Government
Computer
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